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DOCUMENT-IDENTIFIER: US [20060006867 A1](#)

TITLE: Magnetic resonance imaging apparatus and method

Publication Reference Document Number:[20060006867](#)Description of Disclosure:

[0021] The RF coil system shown in FIG. 2 is not optimal for the SENSE method since points in space that have to be unfolded when applying the SENSE reduction are encoded in a single receiver channel that does not sufficiently adequately show different complex coil sensitivity patterns to enable unfolding. It is therefore proposed, according to the present invention, to combine the RF signals from RF coils in such a way that maximum spatially varying coil sensitivities are provided along the principle axes for coil sensitivity encoding. This means that, according to the invention, a fixed combination of RF signals from RF coils is chosen according to the insight into or knowledge of the preferred main orientation of scanning and SENSE reduction direction in the anatomy of primary interest. As much individuality as possible should be provided along the preferred or actual SENSE reduction direction. Particular embodiments of such combinations are schematically illustrated in FIGS. 3 to 6.

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